



NSAI
Standards

Irish Standard
I.S. EN 50643:2018&A1:2020

Electrical and electronic household and office equipment - Measurement of networked standby power consumption of edge equipment

I.S. EN 50643:2018&A1:2020

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN 50643:2018/A1:2020

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National Foreword

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EUROPEAN STANDARD

EN 50643:2018/A1

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Electrical and electronic household and office equipment - Measurement of networked standby power consumption of edge equipment

Appareils électriques et électroniques pour application domestique et équipement de bureau - Mesure de la consommation d'énergie en veille avec maintien de la connexion au réseau des équipements de périphérie

Elektrische und elektronische Haushalts- und Bürogeräte - Messung der Leistungsaufnahme im vernetzten Bereitschaftsbetrieb von Geräten am Netzwerkrand

This amendment A1 modifies the European Standard EN 50643:2018; it was approved by CENELEC on 2020-02-19. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

This document (EN 50643:2018/A1:2020) has been prepared by CLC/TC 100X "Audio, video and multimedia systems and equipment and related sub-systems".

The following dates are fixed:

- latest date by which this document has (dop) 2021-02-19
to be implemented at national level by
publication of an identical national
standard or by endorsement
- latest date by which the national (dow) 2023-02-19
standards conflicting with this document
have to be withdrawn

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

1 Modifications to Annex ZA "Relationship between this European Standard and the eco-design requirements of Commission Regulation (EU) No 801/2013 aimed to be covered"

Replace Annex ZA with the following Annex ZZ:

"

Annex ZZ (informative)

Relationship between this European Standard and the ecodesign requirements of both Commission Regulation (EC) No 1275/2008 and Commission Regulation (EC) No 642/2009, as jointly amended by Commission Regulation (EU) No 801/2013

This European standard has been prepared under a Commission's standardisation request to the European standardisation organisations as regards ecodesign requirements for networked standby in support of Regulation (EC) No 1275/2008 and Regulation (EC) No 642/2009, M/544 / C(2015) 9468 final of 5 January 2016, to provide one voluntary means of conforming to the ecodesign requirements on networked standby of the following:

- Commission Regulation (EC) No 1275/2008 of 17 December 2008 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for standby and off mode, and networked standby, electric power consumption of electrical and electronic household and office equipment; and
- Commission Regulation (EC) No 642/2009 of 22 July 2009, implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for televisions.

NOTE Both Regulation (EC) No 1275/2008 and Regulation (EC) No 642/2009 were amended by Commission Regulation (EU) No 801/2013 of 22 August 2013.

Once this standard is cited in the Official Journal of the European Union under those Regulations, compliance with the normative clauses of this standard given in Tables ZZ.1 and ZZ.2 confer, within the limits of the scope of this standard, a presumption of conformity with the corresponding ecodesign requirements of those Regulations and associated EFTA Regulations.

Table ZZ.1 — Correspondence between this European Standard and Commission Regulation (EC) No 1275/2008 of 17 December 2008 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for standby and off mode, and networked standby, electric power consumption of electrical and electronic household and office equipment (as amended by Commission Regulation (EU) No 801/2013 of 22 August 2013)

Ecodesign requirements of Regulation (EC) No 1275/2008 (as amended by Regulation (EU) No 801/2013) [OJEU L 339/45 (2008)]	Clause(s) / subclause(s) of this EN	Remarks / Notes
Annex II, point 3 (a) (new)	6.2	Possibility of deactivating wireless network connection(s)
Annex II, point 3 (b) (new)	6.4 c)	Power management for networked equipment
Annex II, point 4 (a) (new)	6.5	standby mode(s) when all wired network ports are disconnected and when all wireless network ports are deactivated

Ecodesign requirements of Regulation (EC) No 1275/2008 (as amended by Regulation (EU) No 801/2013) [OJEU L 339/45 (2008)]	Clause(s) / subclause(s) of this EN	Remarks / Notes
Annex II, point 4 (b) (new)	6.5	Power management for Networked equipment other than HiNA equipment when all wired network ports are disconnected and when all wireless network ports are deactivated
Annex II, point 4 (c) (new)	6.4 d)	Power consumption in a condition providing “ networked standby ” into which the equipment is switched by the power management function
Annex II, point 5 (new)	6.4 d)	power consumption of networked equipment other than HiNA equipment or other than equipment with HiNA functionality, in a condition providing networked standby into which the equipment is switched by the power management function, or a similar function
Annex II, point 7 (b) (new)	6.6	power consumption in networked standby if all wired network ports are connected and all wireless network ports are activated
Annex II, point 9 (replacing former point 4)	7.2 and 7.4	Information to be provided in the technical documentation

Table ZZ.2 — Correspondence between this European Standard and Commission Regulation (EC) No 642/2009 of 22 July 2009 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for televisions (as amended by Commission Regulation (EU) No 801/2013 of 22 August 2013).

Ecodesign requirements of Regulation (EC) No 642/2009, (as amended by Regulation (EU) No 801/2013) [OJEU L 191/42 (2009)]	Clause(s) / subclause(s) of this EN	Remarks / Notes
Annex I, point 3 - 1(a) (new)	6.2	Possibility of deactivating wireless network connection(s)
Annex I, point 3 - 1(b) (new)	6.4 c)	Power management for networked televisions
Annex I, point 3 -2 (a) (new)	6.5	standby mode(s) when all wired network ports are disconnected and when all wireless network ports are deactivated

Ecodesign requirements of Regulation (EC) No 642/2009, (as amended by Regulation (EU) No 801/2013) [OJEU L 191/42 (2009)]	Clause(s) / subclause(s) of this EN	Remarks / Notes
Annex I, point 3 - 2(b) (new)	6.5	Power management for Networked televisions when all wired network ports are disconnected and when all wireless network ports are deactivated
Annex I, point 3 - 2 (c) (new)	6.4 d)	Power consumption in a condition providing “ networked standby ” into which the television is switched by the power management function
Annex I, point 3 - 3 (new)	6.4 d)	Power consumption of televisions without HiNA functionality in a condition providing “ network standby ” into which the television is switched by the power management function
Annex I, point 6.1 (e) (new)	7.2	Information to be provided in the technical document
Annex I, point 6.1 (f) (new)	7.4	Information to be provided in the technical document

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the products falling within the scope of this standard."

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EUROPEAN STANDARD

EN 50643

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This European Standard was approved by CENELEC on 2017-12-11. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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EN 50643:2018 (E)

European foreword

This document (EN 50643:2018) was prepared by Technical Committee CENELEC TC 100X, "Audio, video and multimedia systems and equipment and related sub-systems" in collaboration with CENELEC TC 59X, "Performance of household and similar electrical appliances".

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This document has been prepared under a mandate (M/544) given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

Words in bold in the text are defined in Clause 3 Terms and definitions.

Introduction

The methods defined in this European Standard are intended to define requirements for the measurement of the power consumed by the equipment having one or more wired or wireless **network port(s)** able to resume a function by way of a remotely initiated trigger or **reactivation trigger** from a **network** connection.

For the measurement of low power, reference is made to EN 50564:2011. This standard also provides a method to test **power management** and whether it is possible to deactivate wireless **network** connection(s).

EN 50643:2018 (E)

1 Scope

1.1 Equipment in the scope of this standard

This European Standard specifies methods of measurement of electrical power consumption in **networked standby** and the reporting of the results for **edge equipment**.

Power consumption in standby (other than **networked standby**) is covered by EN 50564, including the input voltage range.

This European Standard also provides a method to test **power management** and whether it is possible to deactivate wireless **network** connection(s).

NOTE 1 This standard has been written in particular to support Commission Regulation (EU) No 801/2013 for the measurement of energy consumption in **networked standby**. This standard applies to electrical products with a rated input voltage of 230 V a.c. for single phase products and 400 V a.c. for three phase products.

NOTE 2 The measurement of energy consumption and performance of products during intended use are generally specified in product standards and are not covered by this standard.

NOTE 3 The term “products” in this standard includes household appliances or information technology products, consumer electronics, audio, video and multimedia systems; however the measurement methodology could be applied to other products.

Where this standard is referenced by more specific standards or procedures, these should define and name the relevant conditions to which this test procedure is applied.

1.2 Equipment not in the scope of this standard

This European Standard does not apply to the measurement of electrical power consumption in **networked standby** for **interconnecting equipment**.

NOTE Measurement of electrical power consumption in **networked standby** for interconnecting equipment is the subject of ETSI standard EN 303 423 “Environmental Engineering (EE) - Electrical and electronic household and office equipment; Measurement of networked standby power consumption for interconnecting equipment”.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 50564:2011, *Electrical and electronic household and office equipment - Measurement of low power consumption*

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 50564:2011 and the following apply.

NOTE 1 Further terms and definitions from standards and regulations related to the topic of this standard can be found in the compendium of definitions compiled by Task Force 1 of the CEN/CENELEC Ecodesign Coordination Group (see Bibliography).

NOTE 2 When this standard is used to provide presumption of conformity to a European Directive or Regulation, definitions given in the Directive or Regulation prevail.

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